EEX. SCREW, A.E.; VASIE, Yu.P.; STAKTOSV, A.F.

Improving the surface smoothness of steel castings. Lit. proizv.
no.3:36 Mr '64.

(MIRA 18:9)

STARTSEV, A.M.

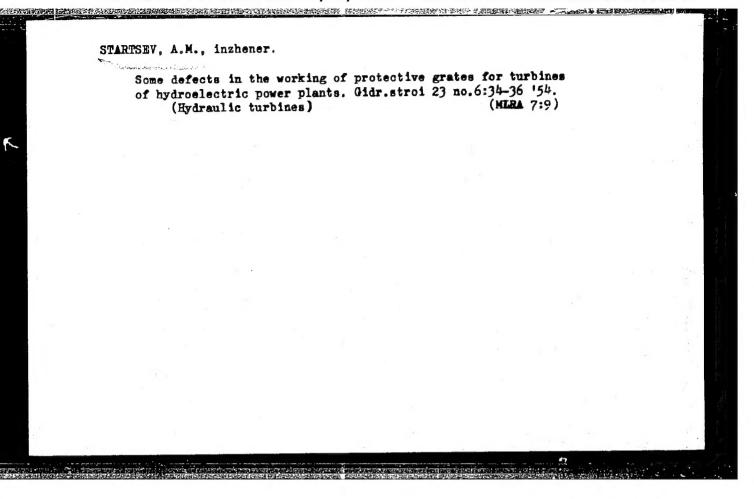
USSR/Engineering - Hydraulics, Structures Mar 52

"Application of Drop Gates in Mavigation Sluice," A.M. Startsev, Engr

"Gidrotekh Stroi" No 3, pp 21-24

Discusses 2 systems of drop gate for upper lock-head: system with lock filling through water supply tunnels and those with filling through drop gate of upper lock-head. The latter has a number of advantages. States that gates for lower lock-heads require further improvement.

219721



STARTSEV, A.M., inzh.

Floating gates. Gidr.strol. 26 no.10:43-45 0 '57. (MIRA 10:10)

(Locks (Hydraulic engineering))

AUTHOR:

Startsev, A.M.

CONTRACTOR OF THE PROPERTY OF

SOV-115-58-4-11/45

TITLE:

A Device for Checking the Diameters of Internal Thread Gages (Prisposobleniya dlya poverki diametrov rez'bovykh kalibrov-probok)

kallbrov-probok

PERIODICAL:

Izmeritel'naya tekhnika, 1958, Nr 4, pp 23 (USSR)

ABSTRACT:

The described device is used to check the mean and outside diameters of thread and smooth internal-gages using a horizontal optical indicator in a vertical position and without altering the design of the optical indicator's object stand. It consists of a sliding bracket containing the top adjustable center and moving on a vertical column which is fixed to the optical indicator's object stand. The lower center is also fixed to the stand, and the internal gage to be measured is fitted between the two centers. There is 1 photo.

- - - 1

1. Gages--Calibration

Card 1/1

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010003-2

SOV/115-58-5-9/36

AUTHOR:

Startsev, A. M.

TITLE:

An Indicating Hole Gauge for Deep Holes (Indikatornyy

nutromer dlya glubokikh otverstiy)

PERIODICAL: Izmeritel'naya tekhnika, 1958, Nr 5, p 19 (USSR)

ABSTRACT:

The device is based on the use of a standard indicating hole gauge of the "Kalibr" Plant to which is connected a micrometric hole gauge extension, developed by the Chelyabinskiy instrumental'nyy Zavod (Chelyabinsk Tool

Plant). Construction details are given. There is I diagram.

Card 1/1

STARTIEN A.M.

AUTHOR: Startsev, A.M., Engineer

98-58-6-17/21

TITLE:

Letter to the Editors (Pis'mo v redaktsiyu)

PERIODICAL:

Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 6, p 50 (USSR)

ABSTRACT:

This is an apology by the author for not having mentioned in his article "On Floating Locks", published in Nr 10 of this periodical for 1957, the name of Professor V.G. Gebel, the inventor of a "floating lock for reservoirs".

AVAILABLE:

Library of Congress

Card 1/1

1. Reservoirs-Equipment 2. Literature-USSR

PAPLENOV, Aleksey Grigor'yevich; STARTSEV, Andrey Maksimovich; TRESKINA, T.N., red.; BOL'SHAKOVA, L.A., tekhn.red.

Kotlas. Arkhangel'sk. Arkhangel'skoe knizhnoe izd-vo. 1959.

(MIRA 12:10)

(Kotlas--Economic conditions)

S0Y/115-59-6--13/33

25(1), 28(1)

AUTHOR:

Startsev, A.M.

TITLE:

A Deflectometer

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 6, p 31 (USSR)

ABSTRACT:

The author developed a device for determining concave or convex deformations on parts of small or large dimensions having been manufactured or repaired. The author furnishes a brief description of this deflectometer based on a diagram. There is 1 diagram.

Card 1/1

DOBROSEL'SKIY, Konstantin Mikhaylovich; ALEKSEYEV, V.D., retsenzent; MISHURIS, B.I., retsenzent; STARTSEV, A.N., retsenzent; SURZHIN, S.N., retsenzent; MANYUKOV, G.S., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Maneuvering in railroad stations] Manevry na zheleznodorozhnykh stantsiiakh. Izd.2., perer. i dop. Moskva, Vses. izdatel skopoligr. obmedinenie M-va putei soobshcheniia, 1961. 207 p.

(MJRA 14:11)

(Railroads-Stations)

SEDYKH, Yu.V., otv. red.; PETUKHOV, P.I., red.; REZNIKOV, F.I., prof., red.; STARTSEV, A.V., red.; SHESHIN, S.S., kand. sel'khoz.nauk, red.; SOKOLOVA, S.I., tekhn. red.

[Costs, business accounting and profitableness on collective farms] Sebestoimost', khozraschet i rentabel'nost' v kolkhozakh. Vologda, Vologodskoe knizhnoe izd-vo,
1963. 102 p. (MIRA 16:12)

1. Zaveduyushchiy sel'skokhozyaystvennym otdelom oblastnogo komiteta Kommunisticheskoy partii Sovetskogo Soyuza, Cherepovetskoye proizvodstvenzoye upravleniye (for Sedykh).

(Collective farms—Finance)

ZENKOV, 1.F.: STAKTIEV, A.V.

Idling of railroad cars unforescen by planning at the Upper
Kuma potash combine. Nauch. trudy PermNIUI no.5:129.133 '65.

(MIRA 18:3)

NAUMOV, Georgiy Karpovich; SILAYEV, Nikolay Ionovich; STEFANOV, Nikolay Yakovlevich; USHAKOV, Pavel Semenovich; CHERNUKHA, Nikolay Timofeyevich; BERZHIGAL, Lazar' Davidovich; STARTSEV, A.N., inzh., retsenzent; KOLTUNOVA, M.P., red.; BORROVA, Ye.N., tekhn.red.

[Economics of the work of railroad stations] Ekonomika raboty stantsii. Moskva, Vses.izdatel'sko-poligr.Ob"edinenie M-va putei soobshcheniia, 1961. 262 p. (MIRA 14:6) (Railroads-Stations)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001653010003-2"

STARTSEV, A.Ya., inchener.

Producing reinforced concrete ceiling panels at the construction site of the Palace of Culture and Science in Warsaw. Biul.stroi.tekh. 13 no.10:10-12 0 56. (MERA 10:1) (Warsaw--Concrete slabs)

(4) 18 年,全学年,本部的学习特别的现在分词

PETELINA, V.S.; STARTSEV, B.Ya.; Prinimali uchastiye: KOTOVA, L.A., laborant; TRUSOVA, M.I., laborant; TEMNOGRUDOVA, L.G., laborant; TUPKOVA, N.A., laborant

Regeneration of alkali from the sulfide alkalies of desulfurized petroleum-products. Nefteper. i neftekhim. no.9:25-27 '63.

(MIRA 17:8)

1. Nauchno-issledovatel skiy institut khimii, g. Saratov.

PETELINA, V.S.; STARTSEV, B.Ye.; Prinimali uchastiye: KOTOVA, L.A., laborant; TRUSOVA, M.I., laborant; TEMNOGRUDOVA, L.G., laborant; TURKOVA, N.A., laborant

Problem of the recovery of alkali from sulfide waste liquors.

Zhur.prikl.khim. 38 no.6:1212-1216 Je *65. (MIRA 18:10)

AND THE PROPERTY OF THE PROPER

1. Nauchno-issledovatel'skiy institut khimii Saratovskogo gosudar-stvennogo universiteta imeni N.G.Chernyshevskogo.

STATION, D.

Machine-Tractor Stati ns

Preparing production and financial plans of machine-tractor stations on time and oroperly., MTS, 12, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1958, Unclassified.

STARTSEV, D.; KOLMSNEV, S., zasluzhennyy deyatel nauki; BOYEV, V.;

KHOROKHORIN, D.; SKURIKHIN, I.; KHOKHLOV, Ye.; BUYANOV, I.,

dvazhdy Geroy Sotsialisticheskogo Truda; TROFIMOV, A.; STEPANOV, M.;

FHDOTOV. S.

The road toward new achievements. Sots. trud. no.4:14-36 Ap 158.
(MIRA 11:4)

1. Starshiv ekonomist TSentral nogo planovo-ekonomicheskogo upravleniya Ministerstva sel'skogo khozyaystva SSSR (for Startsev). 2. Chlen-korrespondent Vsesoyusnoy akademii sel'skokhozyaystvennykh nauk in. V.I. Lenina (for Kolesnev). 3. Zaveduyushchiy sektorom ekonomicheskogo stimulirovaniya sel'skokhozyaystvennogo proizvodstva Vsesoyuznoy akademii seliskokhozyaystvennykh nauk im. V.I. Ienina (for Boyev). 4. Zevednyushchiy sel'skokhozyaystvennym otdelom Moskovskogo komiteta Kommunisticheskoy partii Sovetskogo Soyusa (for Khorokhorin), 5. Zaveduyushchiy kafedroy ekonomiki i organizatsii sel'skokhozyaystvennogo proizvodstva Ivanovskogo sel'skokhozyaystvennogo instituta (for Skurikhin). 6. Machal'nik Spetsial'nogo konstruktorskogo byuro zavoda selikhozmashin im. Ukhtomskogo (for Khokhlov). 7. Predsedatel kolkhoza "Vernyy put ", " Ivanovskogo rayona, Iva novskoy oblasti (for Trofinov), 8. Glavnyy agronom Ramenskoy medhiano-traktornoy stantsii (for Stepanov). 9. Sekretar' partiynoy organizatsii Ramenskoy mashinno-traktornoy stantsii (for Fedotov), 10, Predsedatel' kolkhoza im, Vladimira Il'icha (for Buyanov).

(Machine-tractor stations) (Collective farms)

SIMULSLY, L.A.

GOMEL SKIY, K.Z.; D'YACHKOV, P.N.; BODIGINA, R.H.; STARTS EV, D.A.

Tubular furnace for temperatures up to 1600°. Zav.lab.21 no.4:494 155 (MLRA 8:6)

 Sverdlovskiy filial Vsesoyusnogo nauchno-issledovatel'skogo instituta metrologii imeni D.I.Mendeleyeva. (Electric furnaces)

MAMYKIN, P.S., doktor tekhn. nauk, prof.; STARTSEV. D.A., assistent;
DYACHKOV, P.N., inzh.

Refractory bushings for continuous casting of non-ferrous
metals. Trudy Ural. politekh. inst. no.117:8-14, '62.

(Refractory materials)
(Continuous casting—Equipment and supplies)

STRELOV, K.K.; MAMYKIN, P.S.; Prinimali uchastiye: BAS'YAS, I.P.;
BICHURINA, A.A.; BRON, V.A.; VECHER, N.A.; VOROB'YEVA, K.V.;
D'YACHKOVA, Z.S.; D'YACHKOV, P.N.; DVORKIND, M.M.;
IGNATOVA, T.S.; KAYBICHEVA, M.N.; KELAREV, N.V.;
KOSOLAPOV, Ye.F.; MAR'YEVICH, N.I.; MIKHAYLOV, Yu.F.;
SEMKINA, N.V.; STARTSEV, D.A.; SYREYSHCHIKOV, Yu.Ye.;
TARNOVSKIY, G.I.; FLYAGIN, V.G.; FREYDENBERG, A.S.;
KHOROSHAVIN, L.B.; CHUBUKOV, M.F.; SHVARTSMAN, I.Sh.;
SHCHETNIKOVA. I.L.

Institutes and enterprises. Ogneupory 27 no.11:499-501 (MIRA 15:11)

1. Vostochnyy institut ogneuporov (for Strelov). 2. Ural'skiy politekhnicheskiy institut im. S.M. Kirova (for Mamykin).

(Refractory materials—Research)

UTANTONN, J. i.

21923 STARTSEV, D. I.

Hetody raboty laureata stalinskoy premii vootekhnika Shteymana. Sots. zhivotnovodstvo, 1949, No 2, s. 49-55.

SO: Letopis' Zhurnal'nykh Statey, No. 29, Moskva, 1949.

STARTURY, 5. I.,

Agriculture & Plant & Animal Industry.

Simmenthal cattle. Moskva, 1951.

Monthly List of Russian Accessions, Library of Congress, April 1952. Unclassified.

STARTSEV, D. I.

Machine-Tractor Stations

Work practice of a machine-livestock station, Sots. zhiv., 14, No. 8, 1952.

Monthly List of Russian Accessions Library of Congress November 1952 UNCLASSIFIED.

- 1. STARRIEV, D. I.
- 2. USSR (600)
- 4. Cattle Breeding Atai Territory
- 7. Creation of new breeds of cattle in the Altai. Trudy VIZh 20, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

- 1. STARTSEV, D. I.
- 2. USSR (600)
- 4. Stock and Stockbreeding
- 7. Stockbreeding along pure breed lines, 8, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

STRIST, M.V.; STARTSEV, D.I.

Refect of massage of the udder in calves on microstructure of the mammary gland and milk production in cows. Zhur. ob. biol. 15 no.4: (MIRA 7:9)

(REMAST, udder, eff. of massage in calves on microstructure & lactation in adult cows)

(LAGTATION, eff. of udder massage in calves on microstruction & lactation in adult cows)

Startzev, D. I. -- Methods of Developing and Perfecting Siementhal-Type
Cattle in the USSP." All-Enion Sci Pes Inst of Animal Euslandry.
Moscow, 1956. (Dissertation for the Degree of Doctor in Agricultural
Tolence)

Sc: Enizhnava Letonis', No 12, 1956

 STARTSHY, Dmitriy Ivanovich; ROMANOVICH, Ye.F., redaktor; PAVLOVA, M.H., tekhnicheskiy redaktor

[Methods of developing and inproving yellow spotted cattle in the U.S.S.R.] Metody sexdaniia i sovershenstvovaniia palevo-pestrogo skota v SSSR. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 406 p. (Gattle breeds)

USSR/Farm Animals - Cattle.

0.-2

Abs Jour

: Ref War - Biol, No 1, 1959, 2645

Author

Startety, D.I., Filipson, V.I.

Inst

: All-Union Scientific-Research Institute of Amiral Nus-

bendry.

Title

: The Interpreeding of Cattle in Altay.

Orig Pub

Tr. Vees. n.-i. in-th zhivotnovodstva, 1957, 21, 50-70.

Abstract

: Three-breed hybrids (fathers of Kostromsk Broad x mothers of Siberian-Simmenthalor Hybrid Breed) in Altay proved to Le superior to two-breed hyprids (Siberian-Simmonthalur) with respect to milk fat content and milk yield, under equal milking conditions. Also, they proved superior to Siberian cattle and Simment aler hybrids with reserve to fattening and beef qualities. After first lactation, These Wires-breed hyprids (n = 19) in the Troitskiy

Card 1/2

STARTSEV, D.I., dots. sel'skokhozyaystvennykh nauk.

The problem of the breed of farm animals. Zhivotnovodstvo 20 no.3: 60-62 Mr '58. (MIRA 11:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhivotnovodstva. (Stock and stockbreeding)

 IOBANOV, P.P., BREZHNEV, D.D., ROSTOVTSEV, N.F., POPOV, I.S., NIKOLAYEV,
A.I., SMETNEV, S.I., BURLAKOV, N.M., ARZUMANYAN, Ye.A., BARYSHNIKOV,
P.A., BELYAYEV, N.M., BLOMKVIST, M.S., BORISENKO, Ye.Ya., BURDELEV,
T.P., BYCHKOV, N.P., VSYAKIKH, A.S., DAVIDOV, R.B., KUDRYAVTSEV,
P.N., KUSHNER, Kh.F., LEVANTIN, D.L., NOVIKOV, Ye.A., OZEROV, A.V.,
STARTSEV, D.I., SUKHANOV, N.P., SHVABE, A.K., YURMALIAT,
A.P., Jurmalietis, A.P.].

In memory of Academician Efim Fedotovich Liskun. Zhivotnovodstvo 20 no. 7:84-85 Jl 158.
(Liskun, Efim Fedotovich, 1873-1958)

"APPROVED FOR RELEASE: 08/25/2000 C

CIA-RDP86-00513R001653010003-2

A good excepts of the generalization of foreign experience in animal husbandry ("Stockbreeding in Denmark" by E.I.Bugrimov.
Reviewed by D.I.Startsev.) Zhivotnovodstvo 21 no.7:89-93
Je '59.

(Denmark-Stock and stockbreeding)

(Bugrimov, E.I.)

BURLAKOV, N.M., otv. red.; STARTSEV, D.I., professor, otv. red.; NECHI-PORUK, L.P., red.; DEYEVA, V.M., tekhn. red.

[Stockbreeding; cattle] Skotovodstvo; krupnyi rogatyi skot. V dvukh tomakh. Moskva, Gos. izd-vo sel'khoz. lit-ry. Vol.1. 1961. 420 p. (MIRA 14:7)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Burlakov)
(Cattle)

BURLAKOV, N.M., otv. red.; STARTSEV, D.I., professor, otv. red.; GRIGOR'YEV, Ye.P., red.; DEYEVA, V.M., tekhn. red.

[Stockbreeding; cattle] Skotovodstvo; krupnyi rogatyi skot. V dvukh tomakh. Moskva, Gos.izd-vo sel'khoz. lit-ry. Vol.2. 1961. 315 p. (MIRA 14:7)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V I.Lenina (for Burlakov)
(Cattle)

STARTSEV, D.I., prof.; FOLYAKOVA, A.I., red.

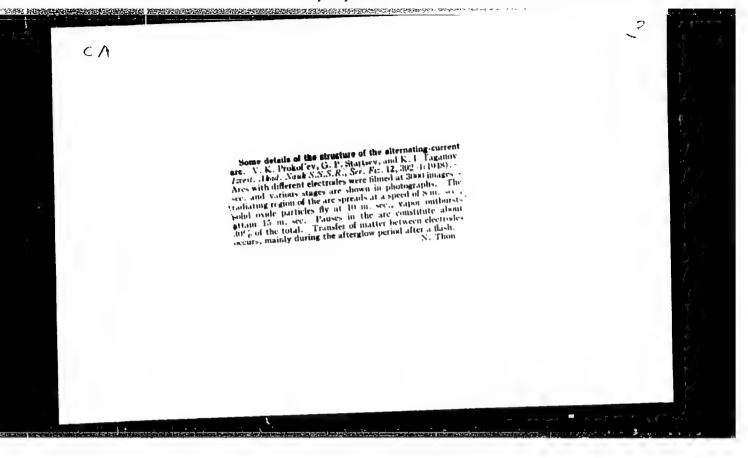
[Selectrion work in breeding stations] Selektsionnaia rabota v plemennykh zavodakh. Moskva, Rossel'khozizdat, 1965. 245 p. (MIRA 19:1)

STARTSEV, F.

Combine state financial control with public control. Fin. SSSR. 23 no.1:56-60 Ja 162. (MIRA 15:2)

1. Zavećuyushchiy Novosibirskim oblastnym finansovym otdelom.

(Novosibirsk Province—Finance)



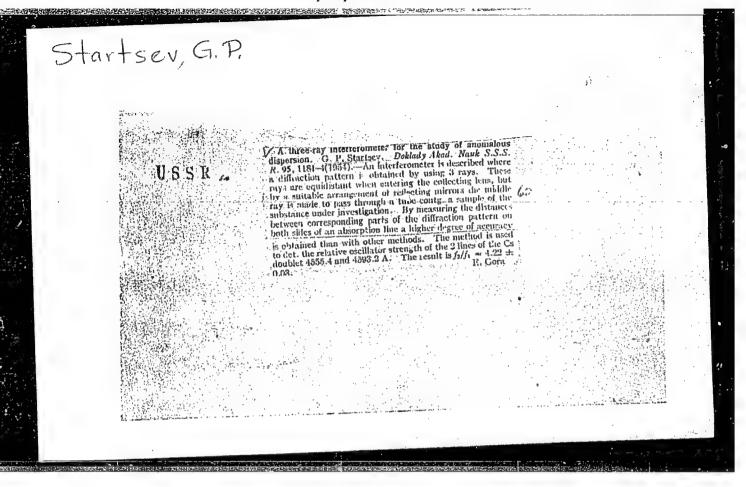
STARTSEV, G. P.

"Study of Anomalous Dispersion in Vapors of Alkaline Metals With the Aid of a Three-Ray Interferometer." Cand Phys-Math Sci, State Optical Inst imeni S. I. Vavilov, Leningrad, 1954. (KL, No 1, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

1211. lzucheniye anomal'noy dispersit v parakn shchelochnykh metallov s porobho in trekhluchevogo interferometra. (L.), 1954. 12s. 20s.a. (Gos. ordena Lenina optich. in-t im. S. I. Vavilov). 100 ekz. B. ts. --(5h-528h8).

S.): Knizhnaya Letopis, Vol. l, 1955



GERASIMOVA, H.G.; IVANOVA, T.F.; SVENTITSKIY, N.S.; STARTSEV, G.P.;
TAGANOV, K.I.; THENTOVIUS, M.E.

Spectral determination of hydrogen in metals. Isv.AN SSSR.Ser fis.
19 no.2:147-148 Mr-Ap '55.

(MIRA 9:1)

(Tartu-Spectrum analysis--Congresses)

THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY

CHAINER

AUTHORS: Morozova, N.G. and Startsev, G.P. 51-3-16/24

On the spectrum of ionized uranium. (O spektre ionizovannogo urana).

PERIODICAL: "Optika i Spektroskopiya" (Optics and Spectroscopy), 1957, Vol.2, No.3, pp.382-384 (U.S.S.R.)

ABSTRACT: The sources were a high-voltage condensed spark and a low-voltage pulse generator (10-3 - 10-5 sec produced by a discharge of 1000-2000 µF capacitors charged to 250-300 V). Brickettes consisting of 1-10% of UzOg and copper powder were used. Both quartz and glass spectrographs were used. Spectrum of pure copper was recorded alongside the uranium spectrum in order to exclude the copper lines in the inter-pretation. A table gives wavelengths (with 0.02-0.03 k error) and intensities (estimated by eye) of 69 uranium lines between 2472 and 3468 A. From the behaviour of the lines with variation of impedance of the source circuits and the behaviour of the copper lines and from a discussion of the energy-level scheme of ionized uranium it is concluded that the recorded lines belong to U⁺⁺⁺ and more highly ionized uranium. There are 2 figures (one plate with record of lines);

Card 1/1 2 tables and 10 references, 4 of which are Slavic. SUBMITTED: August 29, 1956.

AVAILABLE:

DVORNIKOVA, I.V.; STARTSEV, G.P.; GOLOVANOVA, M.N.

Measuring the concentration of atoms in a d.c. arc from the self-reversal of spectrum lines. Fiz.sbor. no.4:61-64 158.

(MIRA 12:5)

1. Gosudarstvennyy ordena Lenina opticheskiy institut imeni S.I.Vavilova.

(Electric arc)

(Spectrum, Atomic)

AUTHORS:

Morozova, N. G., Startsev, G. P.

SOV/48-22-6-13/28

TITLE:

The Isotopic Displacement of Lines in the Spectrum of Ionized

Uranium (Izotopicheskoye smeshcheniye liniy v spektre

ionizovannogo urana)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Seriya fizicheskaya, 1958, Vol. 22,

Nr 6, pp. 686-691 (USSR)

ABSTRACT:

The isotopic effect in the uranium spectrum was discovered and investigated (in non-Soviet countries) on the lines UI and UII (Refs 1-4). The most accurate and detailed description was, however, given by A. P. Striganov and L. A. Korostyleva, namely with respect to the determination of the dependence of the displacements on electron configurations and determination of the displacements in the terms. The rules governing the isotopic displacements in the uranium spectrum were experimentally determined on this occasion. As a result of the investigation of displacements in classified lines between the isotopes U238 and U235 also the rules governing isotopic displacement in the uranium spectrum were determined. All lines, of which the lower terms relate to the configurations with passing-through s2- and s-electrons are

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The Isotopho Displacement of Lines in the Spectrum of Foraged Uranium

SOV/48-22-6-13/28

characterized by the greatest (and negative) displacements. The lines, the lower terms of which belong to the higher electron configurations with non-penetrating f- and d-electrons are characterized by less considerable and only positive displacements. A table compares the results obtained by Striganov (Ref 5) and McNally (Ref 3) respectively. An earlier paper (Ref 6) dealt with a spectrum of ionized uranium (U⁺). It was proved in the course of this paper as a result of further investigation that in this case three-times ionized uranium (U⁺⁺⁺) was concerned. The investigation of the isotopic displacement of the lines in the ionized uranium spectrum was carried out in this case with the aid of a concave diffication net (600 mm⁻¹, 5,2 m diameter) and by means of the device developed by Pashen-Rungs. A low-voltage pulsed discharge with a minimum of inductivity, in which the VG -236 tube was used, served as source. A table shows the results obtained by measuring about 200 different λ -values (between 2394,124 and 4377,026 R). There are 2 figures, 2 tables, and 6 references, 2 of which are Soviet.

Gauca 2/3

The Isotopic Displacement of Lines in the Spectrum of Ionized Uranium

SOV/48-22-6-13/28

1. Uranium isotopes (Radioactive) -- Spectra 2. Ionized uranium -- Spectra

Card 3/3

80561

S/051/60/008/06/022/024 E201/E691

5.4130

AUTHORS 8

Gruzdev, P.F. and Startsev, G.P.

TITLE:

Some Criteria of Applicability of the Theoretical Intensities to the Spectra of Complex Atoms in the Case of LS-Coupling

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 6, pp 879-880 (USSR)

ARS TRACT 8

The authors deal with the limits of applicability of theoretical atomic spectral intensities, calculated on the assumption of normal IS-coupling and tabulated by Goldberg et al (Ref 1). Since the assumption of normal IS-coupling is only an approximation for complex atoms the authors suggest and illustrate the following two criteria of applicability of the theoretical intensities: (1) the differences between the measured and theoretical values of Lande's g-factor should not exceed 0.030-0.050 (Figs 1 and 2), and (2) departures from the "interval rule" should not, in general, be greater than ~20%. There are 2 figures and 7 references, 2 of which are Soviet, 4 English and 1 German.

SUPMITTED:

May 29, 1959

card 1/1

S/048/62/026/007/021/030 B125/B104

Measurement of the arc temperature ...

$$T_{m} = \frac{T_{B}}{1 + \frac{kT_{B}}{hv} \ln [MY_{m}(p)]}, \qquad (2).$$

than the ground state. $v_{i,k}$ are the excitation potentials of the upper and lower levels. If the broadening of the lines is caused by electrons, then T_{m} is slightly smaller than when calculated according to (2). The intensities of the self-reversal maxima were determined from 8 (later from 4) intensities of the self-reversal maxima were determined from 8 (later from 4) lines of the iron spectrum by means of a spectrograph with plane grating. lines of the iron spectrum by means of a spectrograph with plane grating. All lines studied are asymmetrical, (obviously because of the asymmetrical light source), with the maximum on the long-wave side. The width of the light source), with the maximum on the long-wave side. The width of the entrance slit was taken into account by a correction of 100-120°K. The entrance slit was taken into account by a correction of 100-120°K. The errors of 20-25% in the determination of the absolute intensities give errors of 20-25% in the determination of the absolute intensities give rise to an error of 5 to 6% in the temperature of the central part of a care: $T_{m} = (4560 \pm 200)^{\circ}$ K at U = 350 v and I = 2.2 a, and I = 2.2 a. These values show that the I = 2.2 and I = 2.2

"APPROVED FOR RELEASE: 08/25/2000 CI

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Measurement of the arc temperature ...

S/048/62/026/007/021/030 B125/B104

present method can be applied to arc-type light sources. There are 1 figure and 2 tables.

Card 3/3

s/048/62/026/007/022/030 B125/B104

14:710

Morozova, N. G., and Startsev, G. P.

The lines of the iron arc spectrum for determining . AUTHORS:

the arc temperature by the emission method 1 TITLE:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya,

v. 26, no. 7, 1962, 929-933 PERIODICAL:

TEXT: The temperature of the d-c arcs with 110 and 220 v and of a-c arcs was determined from 17 lines of the visible iron spectrum. The a-c arc was fed by an CT-42 (SP-42) generator with electronic control. The electrodes consisted of pointed armco iron and copper rods. The spectra were taken by means of an MCT-28 (ISP-28) and a KCA-1 (KSA-1) spectrograph and an instrument with plane diffraction grating. The lines used should have various upper-level energies and lie within a comparatively wide range of wavelengths; they should be free from interferences, not superposed by neighboring lines; their intensities should not differ notably, and their self-absorption should be low. The temperature of the d-c arc between iron electrodes determined in such a way rises from

card 1/2 11 SEE \$ 1048/62/026/05/1021/00

The lines of the iron arc spectrum ...

S/048/62/026/007/022/030 B125/B104

 $(4350 \pm 100)^{\circ}$ K at 1 a to $(4850 \pm 100)^{\circ}$ K at 5 a. The different measuring apparatus gave the same results under identical conditions. The temperature decreases comparatively slowly from the center of the arc (5000°K) to its edge. It is $\sim 4000^{\circ}\text{K}$ at a distance of 1 mm from the center of the arc. This radial temperature distribution was determined by turning the image of a 2-a arc burning between an iron electrode and a copper electrode by 90° and by projecting this image to the slit of a spectrograph. There are 3 figures and 4 tables.

Card 2/2

· ACCESSION NR: AP4035469

with 600 lines/mm. The dispersion of the instrument was about 2 A/mm in the second order. The spectra were recorded photographically in the temperature range from 1750 to 2020°K at residual gas pressures of 0.4 to 1.2 mm Hg or with continuous pumping, i.e., at a pressure of a few hundredthe of an mm Hg. The sources were discharge tubes, the desired sections of the spectrum being isolated by different light filters. The results are tabulated and some values are compared with the data of R. B. and A.S.King (Astrophys.J. 87,24,1938). The comparison indicates that some of the King & King values are questionable, particularly, those for the spectral region below 3000 %. The accuracy of the present measurements is evaluated on the basis of analysis of all possible sources of change and systematic errors. The final conclusion is that the method of total absorption is suitable for obtaining the values of relative oscillator strengths, including those for transitions giving rise to lines in the ultraviolet region. Orig.art.has: 8 formulas, 1 figure and 2 tables.

ASSOCIATION: none

SUBMITTED: 30May63

DATE ACQ: 22May64

ENCL: 00

SUB CODE: OP

NR REF SOV: 005

0751EB: 008

Card 2/2

 ACCESSION NR: AP4035470

8/0051/64/016/005/0724/0728

AUTHOR: Frish, M.S.; Startsey, G.P.

TITLE: Results of some studies of the spectroscopic characteristics of a plasmatron

SQURCE: Optika i spektroskopiya, v.16, no.5, 1964, 724-728

TOPIC TAGS: plasmatron, plasma source, light source, spectroscopy source, plasma temperature, plasma jet, argon

ABSTRACT: Although plasma jet (or stream) generators are now fairly extensively used as sources in analytic and scientific spectroscopy, not enough is known regarding their spectral characteristics. The purposes of the present work were to investigate the processes of entry of the anode and cathode material into the discharge, to determine the jet temperature and to elucidate the character of the discharge from the nozzle. The experiments were carried out using a slightly modified version of a plasmatron of the type described by M.Margoshes and B.F.Scribner (Spectrochem. Acta.,14,138,1959) and V.D.Artamonov, E.I.Granovskiy, and P.A.Koka (Trudy* KazIMS, No.2,1960). The design provided for interchange of the nozzles (the nozzle serves as the cathode). The cooling gas, introduced tangentially to the chamber walls, was approximately and the chamber walls, was approximately to the chamber walls.

Card 1/3

ACCESSION NR: AP4035470

gon, containing less than 0.2% impurities. The measurements were carried out for current strengths from 15 to 30 amperes and gas flow rates from 360 to 1600 liters per hour, i.e., in the range of common operating conditions. The electrodes were of copper, carbon or iron. The spectrograms were photographed (and subsequently scanned with a microphotometer) by means of a spectrograph with a plane 600 lines/mm grating and a focal length of 4 meters (reciprocal dispersion about 4.1 R/mm). In addition to spectrograms, there were obtained time-resolved oscillograms (output of a photomultiplier) of the radiation from the plasma jet. Analysis of the spectrograms indicated that there are present in the jet spectrum the lines of argon and the cathode material, but no lines of the anode material. The values of the excitation temperature (determined with reference to the intensities of Fe I lines) are of the order of 5000°K; the temperature values deduced for the constricted jet from the 2 mm diameter nozzle lie in the range from 11 400 to 14 300°K. The electron and argon atom and ion concentrations are evaluated on the basis of the temperature. It is concluded that a plasma jet generator of the given type is a good source of high temperature argon plasma, which is discharged from the nozzle in a state close to thermodynamic equilibrium. "In conclusion, the authors express their gratitude to Ye.D. Mishchenko for making available the photoelectric equipment." Orig.art.has: 6 formulas, 4 figures and 2 tables.

Card 2/3

L 14053-65 ASD(f)-2/ASD(m)-3/BSD/RAEM(c)/ESD(gs)

ACCESSION NR: AP4044841

\$/0051/64/017/003/0327/0332

AUTHOR: Morozova, N. G.; Startsev, G. P.

TITLE: Absolute oscillator strengths of arc-spectrum lines of atoms of the 1ron group

SOURCE: Optika i spektroskopiya, v. 17, no. 3, 1964, 327-332

TOPIC TAGS: ac arc, spectrum line, oscillator strength, iron, titanium, vanadium, chromium, cobalt, nickel

ABSTRACT: The purpose of this investigation was to ascertain whether measurements of relative oscillator strengths by means of a method based on emission in an a-c arc really satisfy the conditions that must be satisfied if they are to yield the absolute values of the oscillator strengths, namely, that the relative content of the elements be the same in the solid and in the vapor phase of the plasma. The method was used to obtain absolute values for 22 lines of titantum, vanadium, chromium, iron, cobalt, and nickel by comparison with known absolute f-values for the manganese lines, which are known from other sources. The procedure employed was developed earlier

Card 1/6

L 14053=65

ACCESSION NR: АР4044841

by one of the authors (N. G. Morozova, ZhOKh, v. 12, 185, 1957) for spectral analysis purposes, in which the composition of the samples did not affect the relative intensity of the spectral lines. The preparation of the samples and the test procedures are described in detail. The measured results are in good agreement with data obtained by the absorption and anomalous dispersion method. Some discrepancies with results of others are briefly interpreted. Orig. art. has: 2 figures, 3 formulas, and 3 tables.

ASSOCIATION: none

SUBMITTED: 29Jul63

SUB CODE: OP NO REF SOV: 010

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L 14053-65 ACCESSION NR: AP4044841

ENCLOSURE: 01

Comparison of Cr, Fe, and Mn f-values

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Mn Cr { Fe	2 1 1 5 5	a ⁸ S- z ⁸ P ⁰ a ⁷ S- z ⁷ P ⁰ a ⁵ D- z ⁵ F ⁰	5/2-7/2 3-4 3-2 4-5	4030.75 4254.35 4289.72 3719.93	3.06 2.90 2.88 3.32	0.056 • 0.080 0.042 0.045	0.056 0.10 0.055

(continued to Enclosure 02)

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L 14053-65. ACCESSION NR: AP404484

ENCLOSURE: 02

(continuation from Enclosure OI)

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чон	поглощение	(11)		e e	["]
0.060 [18]	**** <u>*</u>		0.062 [8]	0.045	0.05
0.046 [18]	0.084 [17]		0.052 [16]	0.042	0.07
0.025	0.047 0.030 [•]	0.035		0.023 0.035	0.03

*Measured by anomalous dispersion method and used to reduce our data to absolute scale

Column headings, 1 to r: 1 - Element; 2 - multiplet number; 1 - wavelength, A; 5 - upper level energy, ev; 6 - present work; 7 - anomalous dispersion; 8 - atom beam; 9 - absorption; 10 - fluometer; 11-13 - emission

Card 4/6

"APPROVED FOR RELEASE: 08/25/2000

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Элемент	74 мультип	Переход	<i>y</i> — <i>y</i>	Длина вол	энергия в него урош	насто- ящая ра- бота	Аллен [']	Kopmec n Bos- nan [12]
Ti	17 17 56 13 13 13 12 12 12 12	a ³ F—x ³ F ⁰ a ¹ D—y ¹ F ⁰ a ³ F—y ³ D ⁰ — a ³ F—y ³ F ⁰ — a ⁵ F—y ⁵ G ⁰	2-2 4-4 2-3 2-1 3-2 4-3 2-2 3-3 4-4 5-6	3729.81 3752.86 3904.78 3944.67 3956.34 3959.21 3981.76 3989.76 3988.63 4981.73	3.31 3.34 4.06 3.13 3.14 3.17 3.10 3.11 3.13 3.32	0.032 0.037 0.110 0.023 0.016 0.026 0.029 0.029 0.031 0.19 *		0.13 0.14 0.76 0.16 0.12 0.11 0.16 0.14 0.17 0.33

Absolute values of oscillator strengths in absorption

Column headings, 1 to r: 1 - element, 2 - multiplet number, 4 - wavelength, Angstroms, 5 - upper level energy, ev 6-8 - Absolute values of oscilla torstrengths in absorption (continued to Enclosure 04)

Card 5/6

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010003-2

14053-65 CCESSION NE	AP40448.	41 continuat	ion from	Enc ¹ osure	03)			enclosu	RE: 04	
	V { 7 27 27 22 22 18 18 18 34 31 31 19 20 19 20 17 17 18 32	a ⁴ Fy ⁴ F ⁰ a ⁶ Dy ⁶ D ⁰ a ⁶ Dy ⁶ F ⁰ b ⁴ Fy ⁴ G ⁰ b ⁴ Fy ² G ⁰ a ² Fy ² G ⁰ a ³ Dz ³ F ⁰	9/2-9/2 9/2-9/3 7/2-9/3 7/2-9/2 9/2-11/2 9/2-11/2 9/2-7/3 7/4-5/3 5/4-7/3 7/2-9/2 3-4 1-1 3-3 2-2 3-4 2-1 2-3	3902.25 -4111.78 4115.18 4379.24 3453.51 3873.95 3894.07 3995.31 3414.76 3423.71 3433.56 3446.26 3461.65 3492.95 3858.30	3.23 3.30 3.28 3.12 4.00 3.62 3.70 4.21 4.01 3.64 3.82 3.62 3.69 3.59 3.64 3.64 3.69 3.59	0.037 0.14 0.077 0.20 0.60 0.044 0.036 0.39 0.16 0.30 0.20 0.081 0.20 0.16 0.28	0.32 0.023 0.021 0.24 0.093 0.066 0.051 0.024 0.052 0.038 0.059 0.022	0.055 0.28 0.18 0.30 0.46 0.050 0.037 0.40 0.17 0.14 0.10 0.044 0.14 0.081 0.048		
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card 6/6										

L 12905-65 EWT(m)/EWP(t)/EWP(b) IJP(c)/BSD/ESD(gs) JD

ACCESSION NR: AP4047170 S/0051/64/017/004/0483/0488

AUTHORS: Valters, A. K.; Startsev, G. P.

3

TITLE: Measurement of the relative oscillator strengths in the spectrum of iron atom by the anomalous dispersion

SOURCE: Optika i spektroskopiya, v. 17, no. 4, 1964, 483-488

TOPIC TAGS: iron, spectrum line, anomalous dispersion, spectrography

ABSTRACT: A total of 89 lines of 17 multiplets of the iron atom, the lower levels of which belong to the terms a³D and a³F, were measured by the method of anomalous dispersion in the spectral range 1950-2700 Å. Fifty of these were measured by the method of anomalous dispersion for the first time, and 14 of the lines were determined for the first time. The equipment consisted of a high-termined for the first time. The equipment consisted of a high-termined for the first time. The equipment consisted of a high-termined for the first time.

Card 1/3

L 12905-65 ACCESSION NR: AP4047170

spectrograph with crossed dispersion. The oven was described in detail by the authors elsewhere (with Ye. I. Nikonova, Opt. i spektr. v. 16, 717, 1964). The Rozhdestvenskiy interferometer was matched to the dimensions of the oven and had a base of 340 mm and an arm length of 2700 mm, with a light diameter 35 mm. used a 60 \times 130 mm grating with 300 lines/mm, and made it possible to obtain simultaneously from 4 to 10 orders without superimposition. covering the spectral region from 6700 to 2300 A. The iron spectra were photographed on negative motion picture film and measured with an IZA-2 comparator. The possible random and systematic errors were carefully analyzed and the measurement accuracy was estimated. The results are tabulated and compared with the data of R. and A. King (Astrophys. J. v. 87, 24, 1938) and others. Possible causes of discrepancies are discussed. "The authors think Yu. P. Sy*soyev for great help in adjusting the apparatus and obtaining the spectrograms." Orig. art. has: 2 figures, 3 formulas and 1 table.

Card 2/3

L 12905-65 ACCESSION NR: AP4047170
ASSOCIATION: None ENCL: 00
SIBMITTED: 30May63
SUB CODE: OP NR REF SOV: 008 OTHER: 003
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-	ACCESSION NR	AP5011888	-			2/0157/0159		
	AUTHOR: Kul	ikov, S. A.; Niki	tin, V. G.;	Snigirev, Yu. /	1.; Startsev	, G. P.		
	TITLE: Thyr	atron-controlled	pulse source	of ultraviole	t radiation	11		
		bory i tekhnika e				16		
	TOPIC TAGS:	ultraviolet sour	ce, thyratro	on				
	ABSTRACT: O an electric breakdown is tion frequen (h mm in dia in the gap- region was s He line and	peration of the metarge in a capace controlled by a cy of 400 pulse/s meter, 100 mm lor At a repetition tudied, as well a impurity lines. Itch is constant thium fluoride specific thium fluoride specific constant to the constant of the con	ew ultraviolation and a thyratron (sec). A 0.1 mg) serves a frequency of the rediati	let source dependence of the source dependence of the source dependence of 50 cps, the source on stability.	drogen, 700 s used, and gap; comme pectrum in casure on the characterize	amp at a repet a quartz tube rcial helium fl the 2800-500 A e intensity of d by the line the reflecting	ows	
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ACCESSION NR: AP5011888 ASSOCIATION: Gosudarstvennyy opticheskiy institut (State Optical Institute) SUBMITTED: 04Mar64 ENCL: 00 SUB CODE: OP, EC NO REF SOV: 001 OTHER: 004 ATD PRESS: 4003				•	
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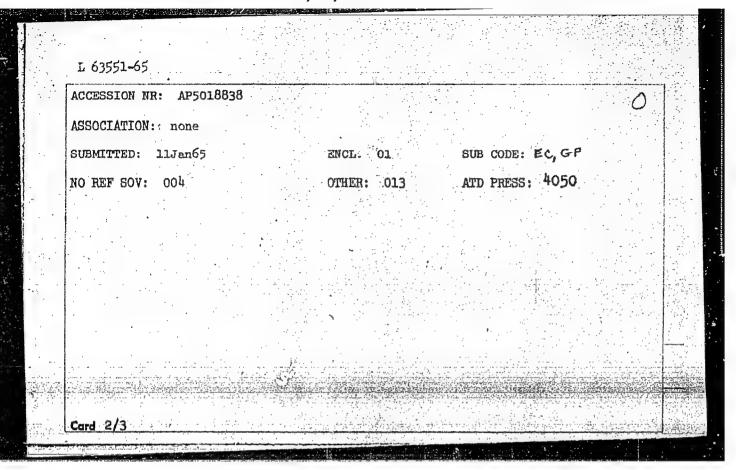
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<u>1 3891-66</u> EWT(1)	man and the state of the state
ACCESSION NR: AP5017494 AUTHOR: Krasavin, V. V.; Kulikov, S. A.; Mishchenko,	UR/0368/65/002/006/0546/0549
44,55 44,56	755.55.55.69 46 14.65
AUTHOR: Krasavin, V. V.; Kulikov, S. A.; Mishchenko,	Ye. D.; Startsev, G. P.
TITLE: Measurement of the density of the radiation s the far ultraviolet region 44, 55,21	spectrum of a pulsed source in
SOURCE: Zhurnal prikladnoy spektroskopii, v. 2, no.	6, 1965, 546-549
TOPIC TAGS: UV spectroscopy, emission spectrum, flas	sh lamp
ABSTRACT: This is a continuation of earlier work by 1965) on measurements of the spectrum below 100 nm, we pulsed source with repetition frequency 50 cps and due the original apparatus employed an FEU-29 photomultipul salicylate screen, and the average current was measured in the present investigation the apparatus was improve photomultiplier (FEU-39) and replacing the microammet peak voltmeter. The recording circuit consists of twith a set of integrating cells, and the peak voltmet supply. The peak voltmeter circuit is briefly descritum in the 9020 nm region is given. The described	where the radiation from a cration 23 µsec was described. Dier with a luminescent sodium red with a microammeter (M-59). We with a microammeter (M-59) or with an automatic recording to blocks, a cathode follower cer with its independent power labed and a sample of the spec-
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EWT(1)/EPF(n)-2/EWG(m)/EPA(w)-2/TIJP(c) AT Pz-6 1 63551-65 UR/0368/65/003/001/0003/0008 ACCESSION NR: AF5018838 535.215.4 Kulikov, S. A.; Mishchenko, Ye. D.; Nikitin, V. G.; Startsev, G. AUTHOR: TITLE: Spectral dependence of the quantum yield of metallic and nonmetallic photocathodes in the region of 95-20 mu SOURCE: Zhurnal prikladnoy spektroskopii, v. 3, no. 1, 1965, 3-8 TOPIC TAGS: photocathode quantum yield, photoeffect, photoelectric device, spectral sensitivity ABSTRACT: The spectral variation of the relative quantum yield of 14 metals and 13 nonmetallic photocathodes was investigated in the extreme ultraviolet spectral region (200-950 Å). The error in the experimentally determined values did not exceed 10%. Table 1 of the Enclosure shows the absolute maximum values of the quantum yields of the materials calculated on the basis of the absolute quantum yield of Pt (G. R. Cook and P. H. Metzger, Journal of chemical physics, v. 41, 1964 p. 321). The wavelengths corresponding to the maxima are approximate. Orig. art. has: 4 figures and 1 table. Card 1/3



L 63551-	65					
ACCESSION N	NR: AP5018838		The second state of the se	The second secon	ENCLOSURE: 01	
Table 1.	Absolute maxi	mum quantum yields	in the re	gion between	200 and 950 Å	
Material	Wavelength (mµ)	Q, Yield (electron/photon)	Material	Wavelength (mµ)	Q, Yield (electron/photon)	
Cu Au Ag Al In Zr Ti Sn Ta Nb W Mo Ni Fe	73.0 70.0 74.0 73.5 80.0 79.0 78.0 76.0 66.5 70.0 60.0 63.0 51.0	0.17 0.15 0.14 0.23 0.07 0.28 0.19 0.16 0.20 0.20 0.16 0.18 0.15 0.15	Pt ThO ₂ ZrO ₂ HfO ₂ Al ₂ O ₃ Sc ₂ O ₃ Nb ₂ O ₅ LiF MgF ₂ SrF ₂ CsJ SbS ZnS BeO	48.0 76.5 32.5 81.0 70.5 30.0 76.0 54.0 62.5 43.5 63.5 80.0 75.5 58.0	0.15 0.13 n.24 0.28 0.20 0.23 0.19 0.52 0.39 0.39 0.63 0.20 0.20 0.53	

EWT(1)/EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EPR/EEC(t)/EEC(b)-2/EWP(b) 1. 34939-65 3/0077/65/010/001/0022/0027 Pq-4/Pr-4/Ps-4 WH/WW AP5004209 ACCESSION NR: AUTHORS: Morozova, N. G.; Startsev, G. P. TITLE: Investigation of the spectral properties of photographic materials in the vacuum ultraviolet region of the spectrum SOURCE: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 10, no. 1, TOPIC TAGS: photographic emulsion, photographic film, photographic sensitivit photographic image theory, ultraviolet photography, spectrosensitometry ABSTRACT: The purpose of the investigation was to develop equipment and a procedure for spectrosensitometric tests of photographic emulsions, and to use the procedure to investigate the properties of certain types of emulsions intended for the registration of short-wave ultraviolet radiation. Calibration was by means of a photoelectric method using a screen of sodium salicylate, whose fluorescence quantum yield is constant over a wide wavelength range. An SP-99 vacuum spectrograph was used to investigate the photographic sensitivity of the material. The light source was a high-voltage discharge in a hydrogen stream, and the light due to Card 1/4

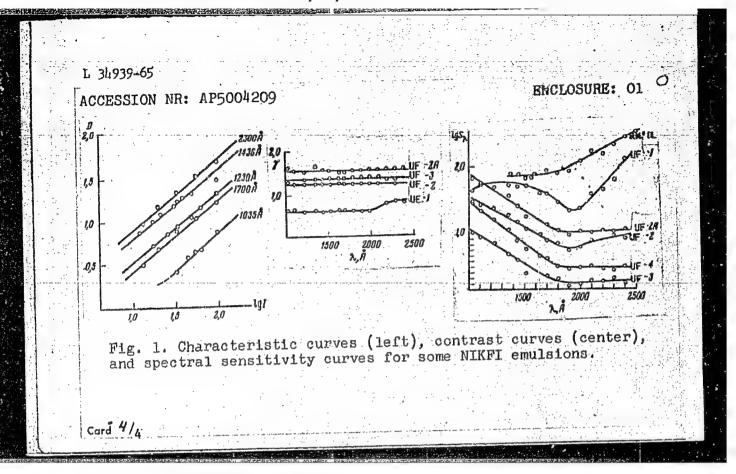
L 34939-65 AP5004209

fluoresactice was transmitted from the output slit of the spectrograph to the photomultiplier by means of a glass-fiber lightguide 8 mm in diameter. The characteristic curves of the photographic materials in the vacuum ultraviolet region were determined by varying the intensity in three ways: by broadening the spectrograph slit, by attenuating the beam with screens of varying meshes, and by using different groups of spectral lines in the hydrogen spectrum. The first two gave almost identical results and are suitable only for the continuous spectrum, at wavelengths 1700—2500 R. Seven groups of lines in the molecular spectrum of hydrogen, spaced approximately 100—150 R apart, were used in the region from 1000 to 1640 A. The results show that the characteristic curve is practically linear for all wavelengths, and with slight exception the contrast of the HIKFI emulsions is practically constant. The characteristic curves, contrast curves, and spectral sensitively curves for several NIKFI emulsions are shown in Fig. 1 of the Enclosure. "The investigated photographic materials were developed at NIKFI and were supplied by V. M. Uvarova, to whom the authors are grateful." Orig. art. has: 7 figures and 3 tables.

ASSOCIATION: Gosudarstvennyy opticheskiy institut im. S. I. Vavilova (State Optical Institute)

Card 2/4

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L 34939-65 ACCESSION	MR: AP500								
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KOSINSKAYA, I.V.; STARTSEV, G.P.

Cross section of oxygen absorption in the vacuum region of the spectrum. Opt. i spektr. 18 no.42735-736 Ap 165. (MIRA 18:8)

EWT(m)/EWP(b)/EWP(t) L 52326-65 IJP(c) UR/0051/65/018/005/0899/0902 AP5012625 ACCESSION NR: AUTHOR: Morozova, N. G.; Startsev, G. P. TITLE: Measurement of the relative values of oscillator strengths in the spectrum of the iron ion SOURCE: Optika i spektroskopiya, v. 18, no. 5, 1965, 899-902 TOPIC TAGS: iron ion, oscillator strength, relative intensity, intermediate coupling approximation, IS coupling, diffraction pattern ABSTRACT: In view of the lack of experimental data on the 3d (a5D)4s-3d (a5D)4p transition for iron, the authors measured the oscillator strength of the lines of the following intense multiplets in the spectrum of the iron ion $a^6D - a^6D^0(N:1), a^6D$ $a^0D - z^0P^0$ (Ne3), $a^4D - z^4D^0$ (Ne63), Card 1/2

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ACCESSION NR: AP5012625

which lie in the ultraviolet region of the spectrum between 2300 and 2800 A. The spectra were photographed with a diffraction spectrograph in first and second order, with dispersion 4 and 2 Å/mm, respectively. The spectrum was excited with a d-q arc operating in such a way that self-absorption did not distort the intensities of the spectral lines. A table is presented of the logarithms of the relative values of the oscillator strengths obtained in the measurements and calculated in the intermediate-coupling and in the IS coupling approximations. Some lated in the intermediate-coupling and in the IS coupling approximations. Some lated errors in the table of C. H. Corliss and W. R. Bozman (Experimental suspected errors in the table of C. H. Corliss and W. R. Bozman (Experimental ransition Probabilities for Spectral Lines of Seventy Elements, N. B. S., 1962) are indicated. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: none

SUBMITTED: 19May64

ENCL: 00

SUB CODE: 01

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NO REF SOV: 003

OTHER: 002

ATD PRESS: 4009

Card 2/2/14

L 26604-66 EWT(1) AP6010451

SOURCE DODE: UR/0368/66/004/003/0267/0269

ACC NR: Mishchenko, Ye. D.; AUTHORS:

Kulikov.

ORG: none

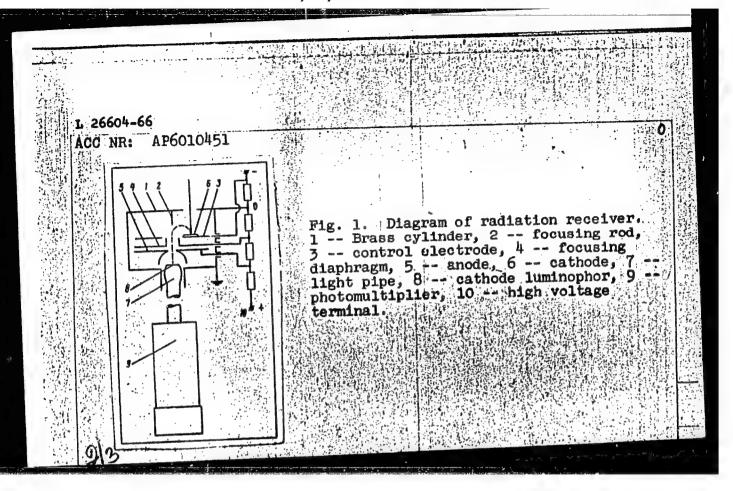
Cathodoluminescent receiver of the open type for short wave TITLE:

ultraviolet radiation

SOURCE: Zhurnal prikladnoy spektroskopii, v. 4, no. 3, 1966, 267-269

TOPIC TAGS: cathodoluminescence, uv radiation, uv receiver, electron multiplier, secondary electron emission, luminophor, quantum yield

The authors describe a radiation receiver which begins to operate stably at pressures 1 N/m2 at relatively low supply voltage, of the order of 600 V. At 200 V its sensitivity becomes equivalent to that of a secondary electron multiplier of the open type. The receiver is based on the principle of electronic conversion of light, wherein the ultraviolet radiation incident on the cathode knocks out electrons that are focused by an immersion objective onto a cathode UDC: 621.383.4 Card.



L 26604-66
ACC NR: AP6010451

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luminophor. The glow of the luminophor excited by the electrons is recorded with a photomultiplier. The main difference between this receiver and the scintillation receiver is the use of an efficient luminophor and the absence of an aluminum layer on the luminophor. The photocurrent is linearly related to the incident light flux and its sensitivity depends on the voltage applied to the electrodes. The sensitivity depends little on the pressure. By using different luminophors it is possible to modify the properties of the receiver for individual applications (registration of constant and pulsed light flux without afterglow, registration of pulsed light fluxes against the background of strong electric interference, and others). The spectral dependence of the quantum yield can be modified by using different cathodes. Orig. art. has: 3 figures, 1 formula, and 1 table.

SUB CODE: 20/ SUEM DATE: 24Feb65/ OTH REF: 003

IMP(a)/AP(t)/ST1 IJP(c) 29907 (A,N) so SOURCE CODE: UR/0413/66/000/015/0075/0075 AGO 186: AP6029907

INVENTORS: Startsov, G. P.; Ivanova, M. K.; Baranov, S. A.

ORG: none

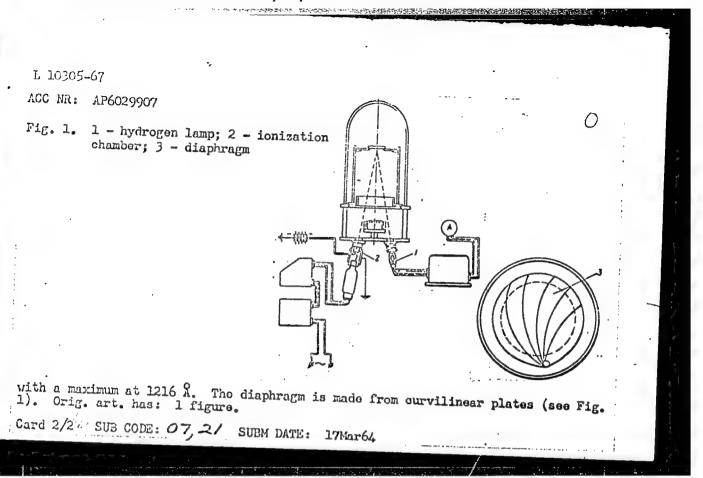
TITLE: Apparatus for deposition of highly reflecting multilayer deposits, Class 32, No. 184401

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 75

TOPIC TAGS: light reflection, reflectometer, reflectoscope, glass, photometer, ionization chamber

ABSTRACT: This Author Certificate presents an apparatus for the deposition of highly reflecting multilayer deposits on glass objects. The apparatus consists of a vaporizing chamber, glass vacuum cover, forevacuum and diffusion pumps, and a photometric installation. To insure a total covering of the area near that of the glass area to be covered and to determine the maximum reflectivity of the deposit in the spectral region of 1200 A, a low-voltage hydrogen light source with an intense 1216 A line is used in the photometric installation. An ionization chamber serves as a detector. The sensitivity of the latter extends from 1100-1300 A UDC: 666.1.056:666.266.4.002.2.002.5

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ACC NR: AP/000023

SOURCE CODE: UR/0051/66/021/005/0532/0537

AUTHOR: Kozlov, M. G.; Nikonova, Ye. I.; Startsev, G. P.

ORG: none

TITIE: Absorption spectra in the vacuum region of aluminum-group metal vapors. I. Thallium and aluminum

SOURCE: Optika i spektroskopiya, v. 21, no. 5, 1966, 532-537

TOPIC TAGS: aluminum, thallium, metal vapor, absorption spectrum, absorption edge, ionization potential, line spectrum, continuous spectrum, oscillator strength

ABSTRACT: The authors investigate the absorption spectra of aluminum and thallium vapor in the spectral region 210 - 150 nm, in which are located the ionization continua and the lines corresponding to electron transitions to levels lying above the first ionization potential of the atom. The spectra were obtained with a continuous-spectrum source (hydrogen discharge in quartz capillary), a vacuum oven with graphite heating element (described in Opt. i spektr. v. 16, 717, 1964), and a spectrograph. The thallium spectrum, photographed at 1030 - 1200K, consists of a series of lines converging to a limit at 203.0 nm, a strong line at 200.7 nm corresponding to a transition from the ground state to 6s6p² 4P₃/2, and a very broad line below 170.0 nm corresponding to the transition 6s²6p ²P₁/2 - 6s6p² ²D₃/2. The maximum absorption cross section of the ionized continuum is 4.0 megabarn (Mb) at 203.0 nm at the edge of the series. The oscillator strength of the 200.7 nm line is 4 x 10⁻³. The lifetime of the correspond-

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UDC: 535.341: 543.420.62

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ing $686p^2$ $^4P_3/_2$ state is 4 x $^{10^{-14}}$ sec. The aluminum spectra were photographed at temperatures 1400 - 1700 K. The absorption spectrum consists of a series of lines converging to a limit 207.0 nm, two lines at 193.6 and 193.2 nm corresponding to the $^{35^2}$ Jp $^{20^0}$ - 35 Jp $^{25^0}$ stransition, which are of interest in view of the sharp gap observed in this vicinity in the solar spectrum, and a quartet of lines between 176.1 and 177.0 nm, corresponding to the transition $^{35^2}$ Jp $^{20^0}$ - 35 Jp $^{20^0}$. The obtained oscillator strengths for the 193.6 and 193.2 lines, 0.21 and 0.25 respectively, do not agree with other published data. The oscillator strengths obtained for the quartet range from 0.002 to 0.008. There are no published data to compare with them. The aluminum absorption cross sections range from 100 Mb for the continuum to 120 - 164 Mb for the lines. The lifetimes range from 1.2 to 6.7 x $^{10^{-13}}$ sec. Orig. art. has:

SUB CODE: 20/ SUBM DATE: 12Jul65/ ORIG REF: 005/ OTH REF: 008/

ATD PRESS: 5109

Card 2/2

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